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Amendments To The Claims:

Please amend the claims as shown.

1 - 10 (canceled)

11. (new) A method for controlling an internal combustion engine having a camshaft, a crankshaft sensor, and a camshaft sensor, comprising:

adapting a reference value for a phase of the camshaft in a predefined position of a setting mechanism when a predefined condition is satisfied;

determining a measurement value for the phase depending on a sensed crankshaft angle and a camshaft angle;

determining a corrected measurement value for the phase depending on the reference value and the measurement value for the phase; and

determining a control signal for controlling the internal combustion engine depending on the corrected measurement value.

- 12. (new) The method according to Claim 11, wherein the predefined condition is satisfied when a motor vehicle containing the internal combustion engine has traveled a predefined journey distance since the last adaptation and a set of predefined ambient conditions are present.
- 13. (new) The method according to Claim 11, wherein the set of ambient conditions are present when the temperature of the internal combustion engine lies within a predefined range.
- 14. (new) The method according to Claim 11 wherein the adaptation takes place near a time when the internal combustion engine starts up.
- 15. (new) The Method according to Claim 11, wherein the adaptation takes place depending on a variable that is characteristic of a load on the internal combustion engine.

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- 16. (new) The method according to Claim 15, wherein the variable that is characteristic of the load on the internal combustion engine is the journey distance.
- 17. (new) The method according to Claim 15, wherein the variable that is characteristic of the load on the internal combustion engine is a variable that is characteristic of the full-load accelerations.
- 18. (new) The method according to Claim 15, wherein the variable that is characteristic of loads on the internal combustion engine is a variable that is characteristic of the uneven running state.
- 19. (new) The method according to Claim 15, wherein the variable that is characteristic of the load on the internal combustion engine is the period of operation of the internal combustion engine.
- 20. (new) The method according to Claim 11, wherein diagnostics are performed on the internal combustion engine depending on the adapted reference value or a value defining the adaptation.